

Solutions to Week in Review 5

1. a.) $M_5 = .7685176648$

b.) $E_M = .0648156685$

2. a.) $T_4 = 1.490678862$

b.) $|E_T| \leq \frac{e}{32}$

3. $n = 6$

4. a.) Converges to $\frac{1}{3}$

b.) Converges to π

c.) Diverges

d.) Converges to $\frac{9}{2}$

5. a.) Converges by comparison to $\frac{1}{\sqrt{x^3}}$

b.) Diverges by comparison to $\frac{1}{x}$